

What is claimed is:

1. A substantially purified human integral membrane protein comprising the amino acid sequence of SEQ ID NO:1 or fragments thereof.

2. A substantially purified variant of human integral membrane protein having at least 90% amino acid identity to SEQ ID NO:1 and which retains at least one functional characteristic of human integral membrane protein.

3. An isolated and purified polynucleotide sequence encoding the human integral membrane protein of claim 1 or fragments or variants of said polynucleotide sequence.

4. A composition comprising the polynucleotide sequence of claim 3.

5. A polynucleotide sequence which hybridizes to the polynucleotide sequence of claim 3.

6. A polynucleotide sequence which is complementary to the polynucleotide sequence of claim 3 or fragments or variants thereof.

7. An isolated and purified polynucleotide sequence comprising SEQ ID NO:2 or fragments or variants thereof.

8. A polynucleotide sequence which is complementary to the polynucleotide sequence of claim 7.

9. An expression vector containing at least a fragment of the polynucleotide sequence of claim 3.

10. A host cell containing the vector of claim 9.

11. A method for producing a polypeptide comprising the amino acid sequence of SEQ ID NO:1, or a fragment thereof, the method comprising the steps of:

- a) culturing the host cell of claim 10 under conditions suitable for the expression of the polypeptide; and
- b) recovering the polypeptide from the host cell culture.

12. A pharmaceutical composition comprising a substantially purified human integral membrane protein having the amino acid sequence of SEQ ID NO:1 in conjunction with a suitable pharmaceutical carrier.

13. A purified antibody which specifically binds to the polypeptide of claim 1.

14. A purified agonist of the polypeptide of claim 1.

15. A purified antagonist of the polypeptide of claim 1.

16. A method for treating cancer comprising administering to a subject in need of such treatment an effective amount of the pharmaceutical composition of claim 12.

17. A method for treating a neuronal disorder comprising administering to a subject in need of such treatment an effective amount of the antagonist of claim 15.

18. A method for treating an immunological disorder comprising administering to a subject in need of such treatment an effective amount of the antagonist of claim 15

19. A method for detecting a polynucleotide which encodes human integral membrane protein in a biological sample comprising the steps of:

- a) hybridizing the polynucleotide of claim 6 to nucleic acid material of a biological sample, thereby forming a hybridization complex; and
- b) detecting said hybridization complex, wherein the presence of said

complex correlates with the presence of a polynucleotide encoding human integral membrane protein in said biological sample.

20. The method of claim 19 wherein the nucleic acid material is amplified by the
5 polymerase chain reaction prior to hybridization.

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